

Recombinant Mouse Ephrin B1

Cat. No. Efnb1-1733M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Mouse
Source	Mammalian Cells
Description	Ephrin-B1 (EFNB1) is a glycoprotein that is expressed on neuroepithelial cells and post-synaptically on dendritic spines in the cortex, supporting a role in synaptic plasticity in this region. Ephrin-B1 is also highly expressed on developing peripheral nerve fibers including auditory and vestibular (statoacoustic) and dorsal root ganglion nerve fibers and provides guidance signals to these cells. Ephrin-B1 participates in cell-cell repulsive and attractive signaling together with its Eph receptor. Tyrosine phosphorylation of ephrin-B1 promotes invasion of cancer cells in vivo and is a potential therapeutic target in some types of gastrointestinal cancers.
Molecular Weight	The predicted molecular weight of Recombinant Mouse Ephrin-B1 is Mr 49.2 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 60 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.

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Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Efnb1 ephrin B1 [Mus musculus]
Synonyms	Efnb1; ephrin B1; Epl2; EFL-3; Elk-L; Eplg2; Lerk2; Stra1; Cek5-L; LERK-2; Cek ligand; Cek5 ligand; OTTMUSP00000019590
Gene ID	13641
mRNA Refseq	NM_010110
Protein Refseq	NP_034240
UniProt ID	P52795
Chromosome Location	X D; X 37.0 cM
Pathway	Axon guidance
Function	ephrin receptor binding; protein binding

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